

LNP™ THERMOCOMP™ MB006S compound

Polypropylene
SABIC Innovative Plastics

Message:

LNP THERMOCOMP* MB006S is a compound based on Polypropylene resin containing 30% Glass Bead. Added features of this material include: Heat Stabilized.

Also known as: LNP* THERMOCOMP* Compound MB-1006 HS

Product reorder name: MB006S

General Information			
Filler / Reinforcement	Glass Bead,30% Filler by Weight		
Additive	Heat Stabilizer		
Features	Heat Stabilized		
Processing Method	Injection Molding		
Physical	Nominal Value	Unit	Test Method
Specific Gravity	1.12	g/cm ³	ASTM D792, ISO 1183
Molding Shrinkage			
Flow : 24 hr	1.2	%	ASTM D955, ISO 294-4
Across Flow : 24 hr	1.1	%	ASTM D955
Across Flow : 24 hr	1.2	%	ISO 294-4
Water Absorption (24 hr, 50% RH)	0.020	%	ASTM D570
Mechanical	Nominal Value	Unit	Test Method
Tensile Modulus	2400	MPa	ISO 527-2/1
Tensile Strength			
Yield	24.3	MPa	ASTM D638
Yield	24.4	MPa	ISO 527-2
Break	19.5	MPa	ASTM D638
Break	19.4	MPa	ISO 527-2
Tensile Elongation			
Yield	6.3	%	ASTM D638
Yield	5.5	%	ISO 527-2
Break	88	%	ASTM D638
Break	83	%	ISO 527-2
Flexural Modulus			
--	2140	MPa	ASTM D790
--	2900	MPa	ISO 178
Flexural Strength			
--	44.0	MPa	ASTM D790
--	46.9	MPa	ISO 178
Impact	Nominal Value	Unit	Test Method
Notched Izod Impact			

23°C	21	J/m	ASTM D256
23°C ¹	2.7	kJ/m ²	ISO 180/1A
Unnotched Izod Impact			
23°C	230	J/m	ASTM D4812
23°C ²	21	kJ/m ²	ISO 180/1U
Instrumented Dart Impact			
23°C, Energy at Peak Load	3.70	J	ASTM D3763
--	1.59	J	ISO 6603-2
Thermal	Nominal Value	Unit	Test Method
Deflection Temperature Under Load			
0.45 MPa, Unannealed, 3.20 mm	113	°C	ASTM D648
1.8 MPa, Unannealed, 3.20 mm	70.0	°C	ASTM D648
1.8 MPa, Unannealed, 64.0 mm Span ³	75.0	°C	ISO 75-2/Af
CLTE			ASTM E831, ISO 11359-2
Flow : -40 to 40°C	6.9E-5	cm/cm/°C	
Transverse : -40 to 40°C	7.0E-5	cm/cm/°C	
Injection	Nominal Value	Unit	
Drying Temperature	82.2	°C	
Drying Time	4.0	hr	
Rear Temperature	193 to 204	°C	
Middle Temperature	216 to 227	°C	
Front Temperature	238 to 249	°C	
Processing (Melt) Temp	227 to 249	°C	
Mold Temperature	32.2 to 48.9	°C	
Back Pressure	0.172 to 0.344	MPa	
Screw Speed	30 to 60	rpm	
NOTE			
1.	80*10*4		
2.	80*10*4		
3.	80*10*4 mm		

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